WHAT IS CLAIMED IS:

| 1 | | 1. | An implantable system for draining cerebrospinal fluid (CSF), said |
|---|---|----------|---|
| 2 | system compri | ising: | |
| 3 | | a cond | uit having a first opening and a second opening, the first opening of the |
| 4 | conduit being | adapted | to be disposed in fluid communication with a space within a patient's |
| 5 | CSF space and | the sec | cond opening being adapted to be disposed in fluid communication with |
| 6 | a drainage location in another portion of the patients body; | | |
| 7 | | a pump | coupled to the conduit to induce flow from the CSF space to the |
| 8 | drainage location; and | | |
| 9 | | an imp | lantable power source connectable to power the pump. |
| 1 | | 2. | A system as in claim 1, wherein the pump is of a type selected from the |
| 2 | group consisting of diaphragm pumps, piston pumps, rotor pumps, peristaltic pumps, and | | |
| 3 | screw pumps. | | |
| 1 | | 3. | A system as in claim 1, wherein the power source is a battery. |
| 1 | | 4. | A system as in claim 1, wherein the power source is a mechanical |
| 2 | energy storage | e device |). |
| 1 | | 5. | A system as in claim 1, wherein the pump is adapted to be operated on |
| 2 | demand. | | |
| 1 | | 6. | A system as in claim 1, wherein the pump is pre-programmed to |
| 2 | operate on a s | chedule | |
| 1 | | 7. | A system as in claim 1, wherein the pump comprises a hermetically |
| 2 | sealed pump of | drive. | |
| 1 | | 8. | A system as in claim 1, further comprising a recirculation loop and a |
| 2 | valve in the recirculation loop, wherein the valve selectively directs flow to the drainage end | | |
| 3 | of the conduit or to an inlet of the pump. | | |
| 1 | | 9. | A system as in claim 8, further comprising a pressure controller |
| 2 | connected to the valve to control pump bypass flow in response to pressure. | | |
| 1 | | 10. | A system as in claim 1, wherein the conduit comprises: |

| 2 | a ventricular catheter having a proximal end and a distal end adapted for | | | |
|---|--|--|--|--|
| 3 | implantation into the CSF space; and | | | |
| 4 | a peritoneal catheter having a proximal end and a distal end adapted for | | | |
| 5 | implantation into the drainage location in the patient's peritoneum, wherein the pump is | | | |
| 6 | connected to receive CSF from the ventricular catheter and deliver CSF to the peritoneal | | | |
| 7 | catheter. | | | |
| 1 | 11. A system as in claim 10, wherein the ventricular catheter has a length | | | |
| 2 | in the range from 10 cm to 50 cm and a lumen having a diameter in the range from 0.1 mm to | | | |
| 3 | 2 mm. | | | |
| 1 | 12. A system as in claim 10, wherein the peritoneal catheter has a length in | | | |
| 2 | the range from 25 cm to 125 cm and a lumen having a diameter in the range from 0.1 mm to | | | |
| 3 | 2 mm. | | | |
| 1 | 13. A method for draining cerebrospinal fluid (CSF) from a CSF space of a | | | |
| 2 | patient, said method comprising: | | | |
| 3 | providing energy to an implanted pump coupled to a conduit, implanted to | | | |
| 4 | drain CSF from the CSF space to a drainage location. | | | |
| 1 | 14. A method as in claim 13, wherein the energy source is a battery. | | | |
| 1 | 15. A method as in claim 13, wherein the energy source is a mechanical | | | |
| 2 | energy source. | | | |
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